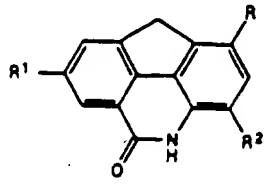
D13

XP-002087397

6001 Chemical Abstracts, Columbus, Ohio, US
Vol.: 94 (1981) 9 June 08 No. 23

Page: 637

94: 192098y **Nitration of 4H-cyclopenta[k,l,m]phenanthridin-5-one.** Migachev, G. I. (Nauchno-Issled. Inst. Plastmass, Moscow, USSR). *Zh. Vses. Khim. O-va.* 1981, 26(1), 100-1 (Russ). Nitration of the title compd. I (R = R^1 = R^2 = H) by



I

HNO_3 (d. 1.42-1.51) at 0-120° gave I (R = NO_2, R^1 = R^2 = H) and I (R = R^1 = H, R^2 = NO_2) whose structures were confirmed by redn. to the corresponding amines. Further nitration gave I (R = R^1 = NO_2, R^2 = H) and I (R = H, R^1 = R^2 = NO_2) which when nitrated further gave the trinitro deriv. I (R = R^1 = R^2 = NO_2).

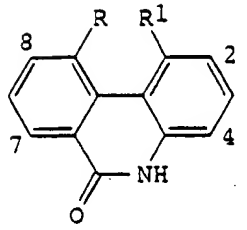
AN 1981:442866 ZCAPLUS
DN 95:42866

TI Studies on phenanthridone and dioxotetrahydrodiazapyrene. 3. Study of the nitration of 5H-phenanthridin-6-one and its derivatives

AU Migachev, G. I.; Grekhova, N. G.; Terent'ev, A. M.
CS Nauchno-Issled. Inst. Plast. Mass, Moscow, 111112, USSR

SO Khim. Geterotsikl. Soedin. (1981), (3), 388-93
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian

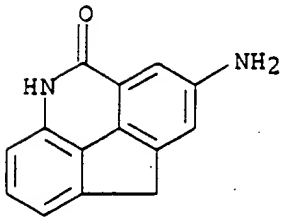
GI



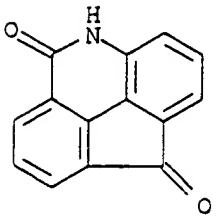
I

AB Phenanthridinones I (R = H, R1 = H, CO2H; R = CO2H, R1 = H; RR1 = CO, CH2, NHCO, CONH) were nitrated by concd. HNO3 or HNO3-H2SO4 to give mono-, di-, and trinitro derivs. Thus, treatment of I (R = R1 = H) (II) with concd. HNO3 gave a 5:1 mixt. of the 2-nitro and 4-nitro derivs. of II. Nitration of the 2-nitro deriv. of II gave the 2,8-dinitro deriv. of II, which was nitrated to give the 2,4,8-trinitro deriv. of II. The 8-nitro deriv. of II was prepd. from the 8-amino deriv. by diazotization-nitration.

IT **78256-03-8**
(diazotization-nitration of)
RN 78256-03-8 ZCAPLUS
CN 5H-Cyclopenta[lmn]phenanthridin-5-one, 7-amino-4,9-dihydro- (9CI) (CA INDEX NAME)

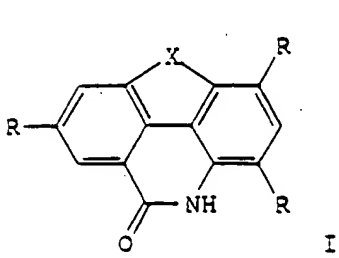


IT **61479-80-9**
(nitration and Schmidt reaction of)
RN 61479-80-9 ZCAPLUS
CN 4H-Cyclopenta[lmn]phenanthridine-5,9-dione (9CI) (CA INDEX NAME)

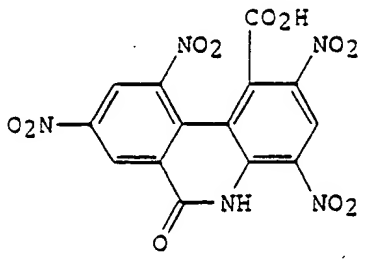


IT **65615-94-3**
(nitration of)

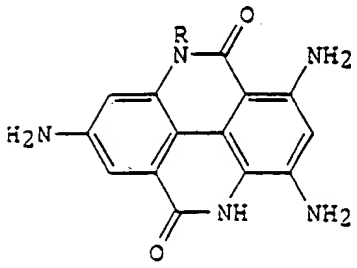
AN 1981:587120 ZCAPLUS
DN 95:137120
TI Synthesis of trinitro- and triamino-substituted tetrahydrodiazapyrene phenanthridones and their derivatives
AU Migachev, G. I.; Terent'ev, A. M.
CS Nauchno-Issled. Inst. Plast. Mass, Moscow, USSR
SO Zh. Vses. Khim. O-va. (1981), 26(4), 476-8
CODEN: ZVKOA6; ISSN: 0373-0247
DT Journal
LA Russian
GI



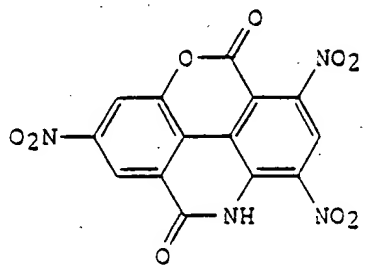
I



II

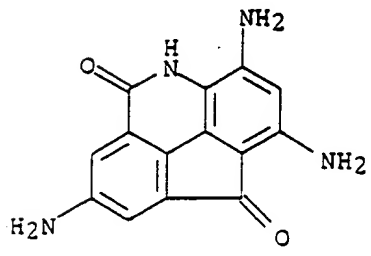


III



IV

AB Redn. of nitro compds. I (X = CH2, CO, CONH; R = NO2) with Fe gave I (R = NH2). Similar treatment of II gave diazapyrene III (R = H), which was acetylated with Ac2O. II was also treated with SnCl2 to give III (R = OH), which was also acetylated with Ac2O. Cyclocondensation of II in DMF at 150-210.degree. gave oxazapyrene IV, which was reduced with Fe to the triamine.
IT **78256-18-5P 78256-21-0P**
(prepn. of)
RN 78256-18-5 ZCAPLUS
CN 4H-Cyclopenta[lmn]phenanthridine-5,9-dione, 1,3,7-triamino- (9CI) (CA INDEX NAME)



RN 78256-21-0 ZCAPLUS
CN 5H-Cyclopenta[lmn]phenanthridin-5-one, 1,3,7-triamino-4,9-dihydro- (9CI) (CA INDEX NAME)